

Product datasheet for **RG211592**

PCDHB7 (NM_018940) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCDHB7 (NM_018940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCDHB7
Synonyms:	PCDH-BETA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG211592 representing NM_018940
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCCAGAGTGGAGCGTGTCTGTCAGAAAAGGCAAGTCTTATTTCTTTGTGTATTTCTGGGAATGT
 CTTGGGCTGGCGCCGAACCGCTTCGGTATTTGTGGCGGAGGAAACCGAGAGAGGCACCTTTCTTACCAA
 CTTGGCAAAGACCTAGGGTTAGGGGTAGGGAACTGAGAGCCCGGGAAGTACAATTGTTTCAGACCAG
 AACATGCAAATTTTACTGCTCAGTTCGCTTACTGGTGTCTACTTCTAAATGAGAAATTGGACCGAGAGG
 AACTGTGTGGCCCGAGAGAGCCCTGTGTCTGCCTTTCCAGTTGTTATTGGAAAAACCTTTTCAGATTTT
 CCGTGTCTGAACTATGGGTGAGAGACATCAATGATCAGCTCCAGTATTTCTAGACAGAGAGATTTCTTG
 AAAATATTAGAAAGTACCACTCCAGGGCGGCATTTCTCTAGAGAGTGCACAGGATTGAGATGTTGGAA
 CCAACAGCCTGAGTAACACCCATCAGCCCAATGCCTATTTCCATATTAATGTCCATGATAGCGGGGA
 GGGGAATATCTATCCGAATTGGTGTGAATCAAGTGTGGATCGGGAAGAGATACCAGAGTTTCAGTTTA
 ACCCTCACCGCTTAGACGGCGGCTCTCTCCAAGATCAGGGACCGCCCTCGTGGCATTCTGGTTCTAG
 ACGTAAATGACAACGCCCTGATTTTGTGCGGTGCTCTACAAGGTGCAGGTGCCGAAAATAGCCCGT
 TGGTTCCATGGTTGTCTCCGTGTGAGCCAGAGATTTAGATACCGGAAGTAATGGGGAAATAGCCTATGCA
 TTTTCTTACGCCACTGAAAGAATTCTCAAACGTTTCAAATCAATCCAACATCTGGCAGTCTTCACTTA
 AAGCGCAATTGGACTATGAGGCAATTCAAACCTTACACATTAATATTAGGCCAAAGACGGCGCGGGCT
 TTCTGGAAAATGCACTGTAGTGGTTGATGTAACAGATAAATCGATAATCGACCCGAGCTGCTCTGTCT
 TCACTTACTAGCCCAATTGCAGAAAACCTCACCCGAGACAGTGTGGTGTTTTTAGGATTAGAGACAGAG
 ATTCGGGAACAATGAAAGACAGTGTGCTCCATCCAGGACGATGTCCCTTTCATCTGAAAGCATCTGT
 CGAAAACCTTCTATACTCTGGTAACAGAGAAACCTTTGGATCGAGAGAGGAACACTGAGTACAACATCACC
 ATCACCGTCCAGCTTGGGGACACCCAGGCTGAAAACCGAGCACAACATAACCGTGTGGTCTCCGACG
 TCAATGACAACGCTCCCGCTTACCCAAACCTCCTACACCCTGTTTGTCCGTGAGAACAACAGCCCGC
 CCTGCCCATCGGCAGTGTGAGCGCCACAGACAGAGACTCGGGACCAACGCCAGGTCATCTACTCCCTG
 CTGCCGTCCAGGACCCGCACCTGCCCTCGCCTCCCTGGTCTCCATCAACGCGGACAACGGCCACCTGT
 TTGCCCTCAGGTCCTGGACTACGAGGCCCTGCAGGCGTTCGAGTTCGCGTGGGCGCCACAGACCGCGG
 CTCCCCCGCGTGTGAGCAGCGAGGCGTGGTGCCTGTGGTGTGGACGCCAACGACAACCTCGCCCTT
 GTGCTGTACCCGCTGCAGAACAGCTCCGCGCCCTGCACCGAGCCGTTGCCCGGGCGGCCGAGCCGGCT
 ACCTGGTGACCAAGGTGGTGGCGGTGGACGGCGACTCGGGCCAGAACGCCTGGCTGTCTGACAGCTGT
 CAAGGCCACGGAGCCCGGCTATTTCGGCGTGTGGGCGCAATGGCGAGGTGCGTACCGCCAGGCTGCTG
 AGCGAGCGCGACGCAGCAAGCAGAGGCTGGTGGTGTGGTCAAGGACAATGGCGAGCCTCCGCGCTCGG
 CCACCGCCACGCTGCACGTGCTCCTGGTGGACGGCTTCTCCAGCCCTACCTGCGGCTCCCGGAGGCGGC
 CCCGGACAGGCCAACTCGCTCACCGTCTACCTGGTGGTGGCGTTGGCCCTCGGTGTCTTCGCTCTTCTC
 CTCTCGGTGCTCCTGTTCTGTGGCGGTGCGGCTGTGCAGGAGGAGCAGGGCGGCCCGGTGGGTGCTGCT
 CGGTGCTGAGGGCCCTTTCCACGACATCTGGTGGACTTGAGCGGCACCGGGACCCTATCCAGAGCTA
 CCAGTATGAGGTGTGCTGACTGGAGGCTCCGGGACAAAATGAGTTCAAGTTTCTGAAACCAATTATCCCC
 AACCTGTACCCAGAGCACAGGCAGGGAAGTGAAGAAAATCGCCCATTTGAGAATAATTTGGGTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211592 representing NM_018940
Red=Cloning site Green=Tags(s)

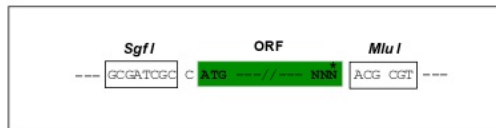
```
MEARVERAVQKRQVFLCVFLGMSWAGAEPLRYFVAEETERGTFLTNLAKDLGLGVGELRARGTRIVSDQ
NMQILLSSLTGDLNNEKLDREELCGPREPCVLPFQLLEKPFQIFRAELWVRDINDHAPVFLDREISL
KILESTTPGAFFLLESAQSDVGTNSLSNYTISPNAFYHINVHDSGEGNIYPELVLNQVLDREEIPEFSL
TLTALDGGSPPRSGTALVRILVLDVNDNAPDFVRSLYKVQVPENSPVGSMMVSVSARDLDTGSNGEIAYA
FSYATERILKTFQINPTSGSLHLKAQLDYEAIQTYTLTIQAKDGGGLSGKCTVVVDVTDINDNRPELLLS
SLTSPIAENSPETVVAVFRIRDRDSGNNGKTVCSIQDDVFPILKPSVENFYTLVTEKPLDRERNTYENIT
ITVTDLGTPLRKTEHNITVLVSDVNDNAPFTQTSYTLFVRENNSPALPIGVSATDRDSGTNAQVIYSL
LPSQDPLPLASLVINADNGHLFALRSLDYEALQAFEFVGTDRGSPALSSEALVRVLVLDANDNSPF
VLYPLQNSSAPCTEPLPRAAEPGYLVTKVVAVDGDSGQNAWLSYQLLKATEPGLFGVWAHNGEVTRARLL
SERDAAKQRLVVLVKDNGEPPRSATATLHVLLVDGFSQPYLRLPEAAPDQANSLTVYLVVALASVSSLFL
LSVLLFVAVRLCRRSRAAPVGRCSVPEGPFPRHLVDLSGTGTLSSQSYQYEVCLTGGSGTNEFKFLKPIIP
NLLPQSTGREVEENRPFQNNLGF
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_018940

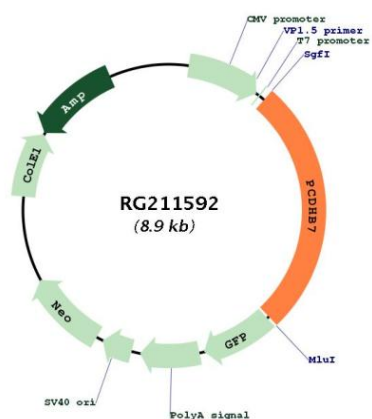
ORF Size: 2379 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_018940.4</u>
RefSeq Size:	3715 bp
RefSeq ORF:	2382 bp
Locus ID:	56129
UniProt ID:	<u>Q9Y5E2</u>
Cytogenetics:	5q31.3
Protein Families:	Transmembrane
Gene Summary:	<p>This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections. The transcript for this particular family member uses more than one polyadenylation site. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG211592